

ABSTRACT OF THE DISCLOSURE

First and second resistors are given a common length L and arranged to have a constant equal resistance per unit length. A plurality of switch elements are made conductive 5 between the resistors. A predetermined constant voltage V1 is applied to one terminal of the resistor through a wiring. The voltage value AD1 at the other terminal of the resistor is detected by a processing unit through a wiring. The voltage value AD2 at one terminal of the resistor is 10 detected by the processing unit through a wiring. The other terminal of the resistor is connected with the ground through a wiring. On the basis of the voltage values AD1 and AD2 detected, the operating states of the individual switch elements are detected by the processing unit.